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NOTICE OF ALLOWANCE AND FEE(S) DUE

21559 7590 07/13/2010

CLARK & ELBING LLP 101 FEDERAL STREET BOSTON, MA 02110 EXAMINER GUPTA, ANISH

ART UNIT PAPER NUMBER

DATE MAILED: 07/13/2010

ſ	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
•	10/564,744	03/03/2006	Thomas J. Gardella	00786/540002	1482	

TITLE OF INVENTION: CONFORMATIONALLY CONSTRAINED PARTHYROID HORMONE (PTH) ANALOGS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/13/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of n a) specifying a new corres	naintenance fees wi pondence address;	II be m and/or	nailed to the current (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
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							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTOR	NEY DOCKET NO.	CONFIRMATION NO.
10/564,744 TITLE OF INVENTION	03/03/2006 :: CONFORMATIONAL	LY CONSTRAINED PA	Thomas J. Gardella RTHYROID HORMONE	(PTH) ANALOGS	0	0786/540002	1482
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	10/13/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
GUPTA,	, ANISH	I654	514-015000				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ Fee Address' indication (or "Fee Address' Indication form PTO/SB/47 evo 0.02 or more recent) attached. Use of a Customer Namither is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED O			registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is 3 isted, no name will be printed.				
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	s SMALL ENTITY state	is. See 37 CFR I.27.	b. Applicant is no long				
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10/564,744	03/03/2006	Thomas J. Gardella	00786/540002	1482	
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CLARK & ELI	BING LLP	GUPTA, ANISH			
101 FEDERAL STREET			ART UNIT PAPER NUM		
BOSTON, MA 02110			1654		
			DATE MAILED: 07/13/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 259 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 259 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/564,744 GARDELLA, THOMAS J. Notice of Allowability Examiner Art Unit ANISH GUPTA 1654 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 3/22/2010. 2. The allowed claim(s) is/are 1-3,7-9,11-14,17-28,30-39 and 42-48. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) Some* c) None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No.

3. Copies of the certified copies of the priority documents have been received in this national stage application from the

International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this concled below. Failure to timely comply will result in ABANDONMENT of the THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.						
 A SUBSTITUTE OATH OR DECLARATION must be submitted. No INFORMAL PATENT APPLICATION (PTO-152) which gives reason 						
5. CORRECTED DRAWINGS (as "replacement sheets") must be sub	mitted.					
(a) I including changes required by the Notice of Draftsperson's Pat	ent Drawing Review (PTO-948) attached					
 hereto or 2) to Paper No./Mail Date 						
(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).						
 DEPOSIT OF and/or INFORMATION about the deposit of BI attached Examiner's comment regarding REQUIREMENT FOR TH 						
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal Patent Application					
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Interview Summary (PTO-413), Paper No./Mail Date					
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 3/24/2010, 6/24/2010 	7. 🖾 Examiner's Amendment/Comment					
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Statement of Reasons for Allowance					
or Bloograa Material	9. Other					
/Anish Gupta/						
Primary Examiner, Art Unit 1654						

Application/Control Number: 10/564,744 Art Unit: 1654

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jeff Kessler on June 30, 2010.

The application has been amended as follows:

The following claims are canceled.

Claims 5-6, 29, 40, 41, 49-52.

The following claim has been amended.

- 27. A method of treating <u>hypercalcemia mammalian conditions characterized by increased activity or production of PTH or PTHrp</u>, said method comprising administering to a subject in need thereof an effective inhibitory amount of a peptide of claim 1.
- 28. A method of treating <u>hypercalcemia mammalian conditions characterized by increased activity or production of PTH or PTHrp</u>, said method comprising administering to a subject in need thereof an effective <u>inhibitory</u> amount of a composition comprising a peptide of claim 1 and a pharmaceutically acceptable carrier.

Election/Restriction

Art Unit: 1654

Claim 1 is directed to an allowable product. Pursuant to the procedures set forth in MPEP § 821.04(B), claims 24-25, 27-28, 30-36, directed to the process of making or using an allowable product, previously withdrawn from consideration as a result of a restriction requirement, 6/25/08 hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Because all claims previously withdrawn from consideration under 37 CFR 1.142 have been rejoined, the restriction requirement as set forth in the Office action mailed on 6/25/08 is hereby withdrawn. In view of the withdrawal of the restriction requirement as to the rejoined inventions, applicant(s) are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The claims are drawn to PTH antagonist peptides.

The reference of Gensure et al. teaches a PTH antagonist peptide that contains a Bpa (p-benzoyl-L-phenylalanine) residue in position 2 of the sequence. The reference specifically discloses (Bpa², Ile⁵,Trp²³,Try²⁶|PTHrP-(1-36) and Bpa²-PTHrP-(1-36). While the reference teaches peptides with Bpa residue in position two, similar to the claimed invention, the reference does not teach nor suggest the other substitutions claimed in other positions as claimed. The disclosed peptides of Gensure are not rendered obvious by Gardella or Shimizu since these references teach substitutions

at positions 1, 5, 8, 10, 11, or 14 for agonist peptides. The claimed peptides act as antagonists against a PTH(1-14) agonist (see figure 5 and 6 of the instant specification). Thus, one would not have any motivation, nor have a reasonable expectation, to make the substitutions taught in Gardella or Shimizu in the Gensure peptides because Gensure peptides are antagonists and the Gardella and Shimizu peptides are agonist. Thus, the claimed invention is both novel and unobvious over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANISH GUPTA whose telephone number is (571)272-0965. The examiner can normally be reached on 5/4/9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tsang Cecilia can be reached on 571-272-0562. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Anish Gupta/ Primary Examiner, Art Unit 1654